KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	:					(See Ins	tructi	ons on Rev	erse Side	•)							
Open Flow				Test Date			۸DI	No	. 15									
Deliverabilty						rest Date					. 13 3-20547-0	0-00						
Company Noble Energy Inc.					Lease Zweygardt				3.				Well Number -5					
County Location Cheyenne NW-NE					Section 5			TWP 4S		RNG (E/W) 41W		Acres Aprilant			ECEN	/EC		
						Reservoir Niobrara				Gas Gathering Connection Southern Star/Kinder Morgan					DE	C 26	201	
·					Plug Back Total Depth 1556'				Packer Set at					KCC WICHI				
Casing Size Weight 7", 4-1/2" 17#, 10.5#				Internal D 9-7/8",			Set a 270'	Perforations 1410'			To 144	то 1446'			וורי			
Tubing Size Weight 2-3/8" 4.7#				Internal E	Diamete	r	Set a	Set at		Perforations			То					
					Type Flui	Type Fluid Production saltwater				Pump Unit or Traveling Plunger? Yes Yes				es /	s / No			
Producing Thru (Annulus / Tubing)					% Carbon Dioxide					¥				Gravity - G _g				
tubing Vertical D	epth(F	i)				-,	1	Press	sure Taps					(Met	er Rur	n) (Prov	er) Size	
Pressure	Buildo	n: :	Shut in	/6		12 at 2	:00		(AM) (PM)	Taken			20	at		(AN	 1) (PM)	
·					12 3:25			AM) (PM) Taken		20								
	····						OBSE	RVE	D SURFACI	E DATA				Duration of Sh	nut-in_	25.5	Hours	
Static / Dynamic Property	Size		Circle one: Meter Prover Pressure psig (Pm)		Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Well H Temperat		Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)		Liquid Produced (Barrels)			
Shut-In	t-In		paig (riny		mones 11 ₂ 0				psig 70	psia	psig		psia					
Flow																		
							FLOW	STR	EAM ATTR	IBUTES		, <u>.</u>		-				1
Plate Coeffiec (F _b) (F Mcfd	ient p)	Circle one: Meter or Prover Pressure psia			Press Grav Extension Fac √P _m xh F		tor Te		Flowing emperature Factor F _{ft}	erature Fa		viation Metered Flow actor R F _{pv} (Mcfd)		w GOR (Cubic Fee Barrel)			Flowing Fluid Gravity G _m	
				L		(ODEN EL	0110 (0	<u> </u>	CDARU ITV) CALCIII	ATIONE							j
(P _c) ² =		_:	(P _w) ²	=	:	P _d =		<u></u> ?	ERABILITY) CALCUL P _c - 14.4) ₊			:		$P_{d}^{2} = P_{d}^{2}$	0.207		,
$(P_c)^2 \cdot (P_a)^2$ or $(P_c)^2 \cdot (P_d)^2$				Choose formula 1 or 2: 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$		LOG of formula 1. or 2. and divide by:		Slope 		ssure Curve be = "n" or signed ard Slope	l _{n x}	LOC	G	Antilog	E	Delive quals R	rability t x Antilog	
																		}
Open Flo	w	·	<u> </u>		Mcfd @ 14.	65 psia			Deliverab	oility				Mcfd @ 14.65	psia]
The	unders	_				Сотрапу, з					to make t			rt and that he	has I		lge of	,
			Witness	(if an	у)				_				For C	Company				-
				1										cked by				•
			For Com	. m 5510									CHEC	mad by				

	nder penalty of perjury under the laws of the state of Kansas that I am authorized to request nder Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc.
	egoing pressure information and statements contained on this application form are true and
correct to the be	est of my knowledge and belief based upon available production summaries and lease records
of equipment in:	stallation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby rec	uest a one-year exemption from open flow testing for the Zweygardt 31-5
	grounds that said well:
(Chec	is a coalbed methane producer is cycled on plunger lift due to water is a source of natural gas for injection into an oil reservoir undergoing ER is on vacuum at the present time; KCC approval Docket No is not capable of producing at a daily rate in excess of 250 mcf/D
	ree to supply to the best of my ability any and all supporting documents deemed by Commission ary to corroborate this claim for exemption from testing.
Date: 12/20/20	12
	Signature: Title: Regulatory Analyst

Instructions:

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.